

# Visibility of the scientific production in the University of León (Spain)

M<sup>a</sup> Antonia Morán Suárez (mamors@unileon.es), Josefa Gallego Lorenzo (jgall@unileon.es), Isabel Olea Merino (iolem@unileon.es),

Blanca Rodríguez Bravo (blanca.rodriguez@unileon.es); Carmen Rodríguez López (mrodl@unileon.es);

Lourdes Santos de Paz (lourdes.santos@unileon.es)

DPTO. PATRIMONIO ARTÍSTICO Y DOCUMENTAL. ÁREA DE BIBLIOTECONOMÍA Y DOCUMENTACIÓN. UNIVERSIDAD DE LEÓN



## Introduction

Is a study about the international visibility and the importance of journals in which ULE researchers published from references of papers indexed by international databases. One of the indicators of research quality of an institution is the number of its papers indexed in international databases such as WoS (Web of Science) or Scopus this figure also determines its position in international quality rankings.

## Objectives

To characterize the community of researchers.  
To know the evolution and status of scientific output.  
To study the characteristics of the publications (typology, collaboration, productivity and quality of published journals)

## Methodology

Analysis of references.

Population: faculty from the University of León

Databases analyzed: Scopus, WoS, Academic Search, Biosis, Biological Abstracts, PubMed, Francis and FSTA.

Time span: 1995-1996 to 2005-2006.

Search strategy: "univ leon" and Spain and 1995-2006

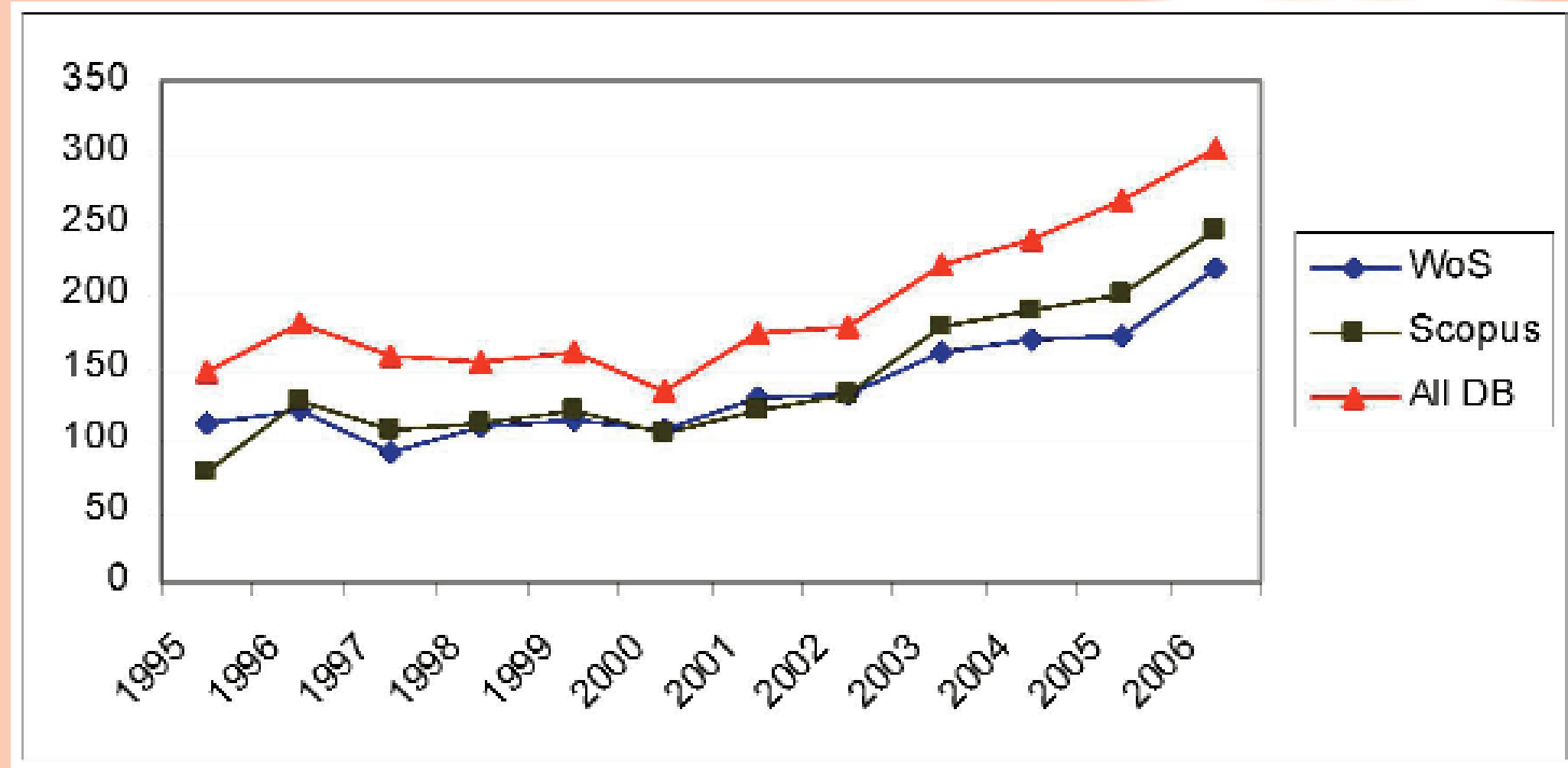
## Results

The total production between 1998-2006 was 2,317 documents (2,005 articles and 108 conference papers).

### Scientific production of Univ of León (ULE)

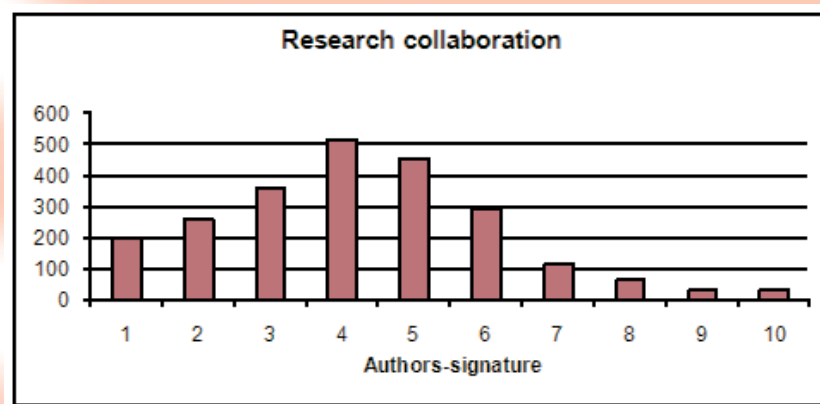
Year	WoS	Scopus	All DB
1995	110	77	147
1996	119	126	180
1997	92	107	159
1998	109	111	153
1999	114	120	160
2000	107	104	134
2001	128	120	175
2002	131	130	178
2003	161	179	222
2004	169	190	240
2005	171	200	267
2006	219	247	302
TOTAL	1630	1712	2317

### Evolution of the presence of ULE scientific research in databases



### The top most productive Departments

Departaments of ULE	WoS	%	Scopus	%	Rest of DB	%
D Ecología, Genética y Microbiología	272	11,74	280	12,08	24	1,04
D Patología animal (Sanidad animal)	156	6,73	202	8,72	25	1,08
D Higiene y Tecnología de los Alimentos	171	7,38	158	6,82	34	1,47
D Producción Animal I	132	5,7	137	5,91	56	2,42
D Fisiología	121	5,22	136	5,87	19	0,82
D Bioquímica y Biología Molecular	110	4,75	127	5,48	2	0,09
INBIOTEC	9	0,39	92	3,97	1	0,04
D Biología celular y anatomía	72	3,11	83	3,58	10	0,43
D Patología animal (Medicina animal)	56	2,42	67	2,89	5	0,22
D Farmacología y Toxicología	60	2,59	61	2,63	3	0,13

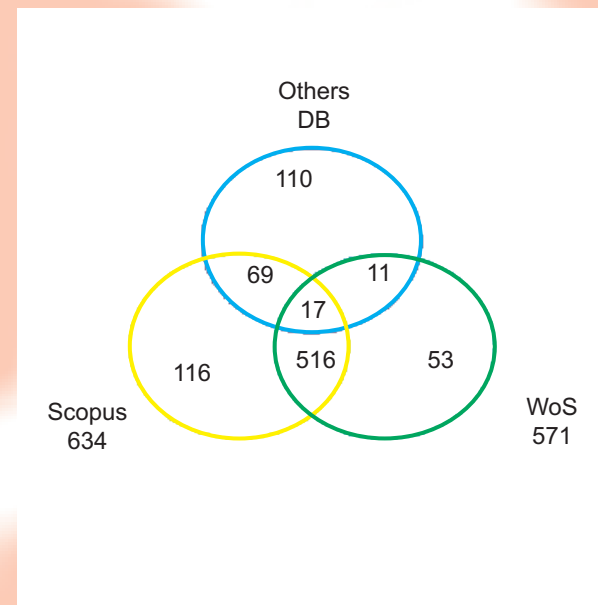


Institutional collaboration	Frequency	%
Intrauniversity	166	10,21
Intraprovincial	75	4,61
Intraregions	71	4,37
Interregional	324	19,83
International	136	8,36
Intraprovincial-International	2	0,12
Intraregions-International	4	0,25
International-European	126	7,75
Intraprovincial-European	6	0,37
Intraregions-European	7	0,43
Interregions-European	5	0,31
Without collaboration	704	43,30

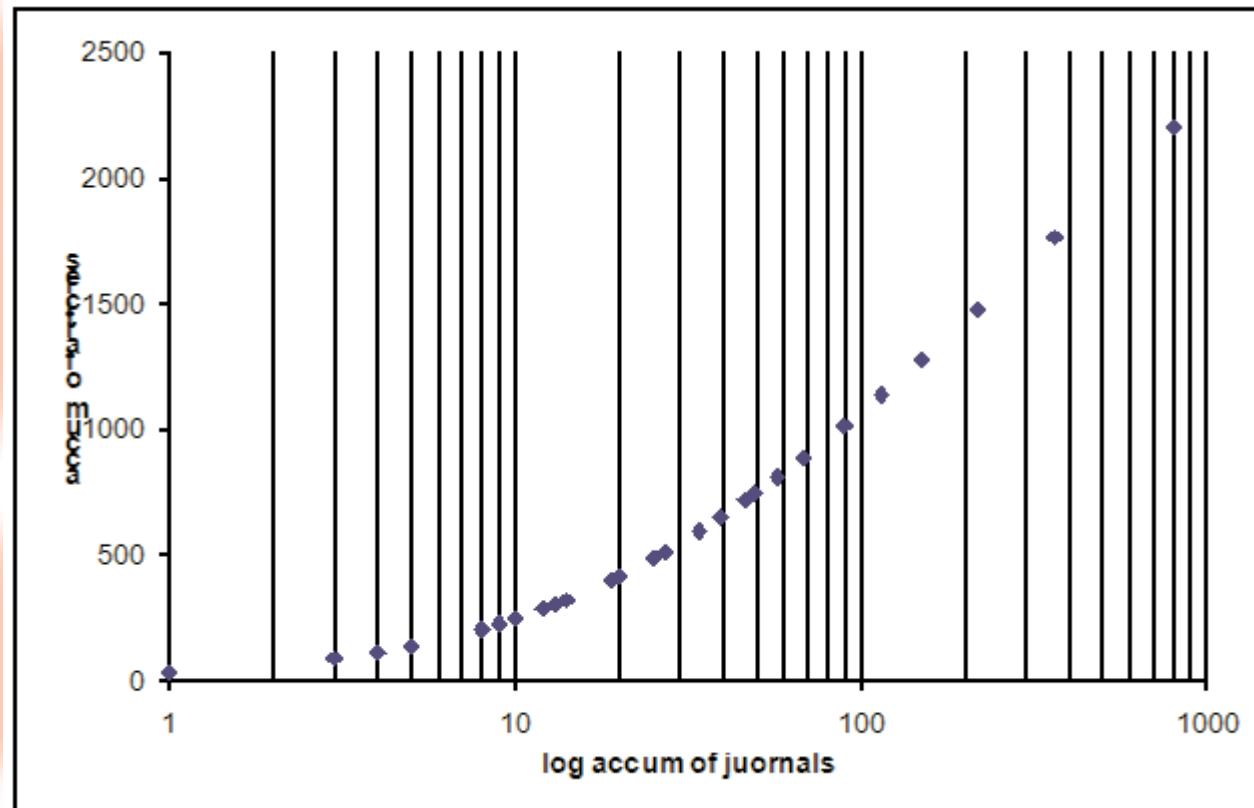
### Number of journals in which ULE researchers published & papers found for sources

Database	Titles	%	Papers	%
Academic Search	304	38,14	574	26,83
Biological Abstracts	201	25,22	461	20,91
Biosis	278	34,88	567	25,71
Francis	43	5,40	87	3,95
FSTA	51	6,40	166	7,53
PubMed	175	21,96	409	18,55
Scopus	634	79,55	1670	75,74
WoS	572	71,77	1601	72,61
	797	100	2285	100,

### Overlap among different data bases



### Concentration of 52% of the production in 14.3% of the journals. Large dispersion of the rest. Dispersion of journals



### The top 10 journals most used to publish

Titles	Papers	Accumulated	Subject	Country Publisher
Journal of Food Protection	27	27	Agricultural Sciences	United States
Journal of Bacteriology	27	54	Microbiology	United States
Veterinary Record	26	80	Plant & Animal Science	United Kingdom
Theriogenology	24	104	Plant & Animal Science	United States
Applied Microbiology & Biotechnology	23	127	Microbiology	United States
Applied and Environmental Microbiology	23	150	Microbiology	United States
International Journal of Food Microbiology	22	172	Agricultural Sciences	Netherlands
Journal of Dairy Science	21	193	Agricultural Sciences	United States
Small Ruminant Research	19	212	Plant & Animal Science	Netherlands
Fems Microbiology Letters	19	231	Plant & Animal Science	Netherlands

### The 10 journals with higher "Impact Factor or indicator of scientific prestige"

R	Titles	Papers	JCR	Country Publisher	R	Titles	Papers	SJR	Country Publisher
1	Nature	1	31,434	United States	1	Nature	1	6,658	United States
2	Nature Medicine	1	27,553	United States	2	Nature Medicine	1	5,316	United States
3	Clinical Microbiology Reviews	1	16,409	United States	3	Proceedings of the National Academy of Sciences of the United States of America	7	2,402	United States
4	Immunological Reviews	1	11,761	United States	4	Molecular and Cellular Biology	1	2,26	United States
5	American Journal of Respiratory and Critical Care Medicine	1	9,792	United States	5	Current Opinion in Microbiology	2	1,525	United Kingdom
6	Proceedings of the National Academy of Sciences of the United States of America	7	9,380	United States	6	Trends in microbiology	2	1,497	Netherlands
7	Current Opinion in Microbiology	2	7,483	United Kingdom	7	Journal of Biological Chemistry	14	1,4	United States
8	Molecular Biology and Evolution	1	7,280	United States	8	Molecular Biology and Evolution	1	1,382	United States
9	Journal of Hepatology	13	7,056	Netherlands	9	American Journal of Respiratory and Critical Care Medicine	1	1,353	United States
10	Development	1	6,812	United Kingdom	10	Molecular Microbiology	11	1,151	United Kingdom

## Conclusions

Researchers activity in science and technology is more represented in databases than social sciences and humanities research.  
Increasing presence of ULE research in international databases.  
High collaboration level among authors (groups of 4 - 5).  
Collaboration mainly internal within ULE (69.49%)  
More than 75% of the articles have been referenced in JCR (WoS) or SJR (Scopus) journals  
The coverage of journals in which ULE researchers published is major in Scopus, but WoS indexed more published papers.